

FILE

Sheet 1 of 4

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO UMV-1584	SERIAL NO. 09/357,273
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Randal J. Kaufman et al.	
		FILING DATE July 20, 1999	GROUP 1633 1647

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>RCN</i>	A1	05/85	Mark et al.	424	85	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>RCN</i>	A2	✓	Candau, R. et al., "Identification of human proteins functionally conserved with the yeast putative adaptors ADA2 and GCN5," <i>Mol. Cell. Biol.</i> 16:593-602 (1996).
	A3	✓	Cao, X. et al., "Requirement of tyrosine- and serine/threonine kinases in the transcriptional activation of the mammalian grp78/BiP promoter by thapsigargin," <i>J. Biol. Chem.</i> 270:494-502 (1995).
	A4	✓	Chang, S.C. et al., "Rat gene encoding the 78-kDa glucose-regulated protein GRP78: its regulatory sequences and the effect of protein glycosylation on its expression," <i>Proc. Natl. Acad. Sci. USA.</i> 84:680-684 (1987).
	A5	✓	Chapman, R.E. et al., "Translational attenuation mediated by an mRNA intron," <i>Curr. Biol.</i> 7:850-859 (1997).
	A6	✓	Chen, C.A. et al., "Calcium phosphate-mediated gene transfer: a highly efficient transfection system for stably transforming cells with plasmid DNA," <i>BioTechniques</i> 6:632-638 (1988).
	A7	✓	Chen, K. et al., "Involvement of p38 mitogen-activated protein kinase signaling pathway in the rapid induction of the 78-kDa glucose-regulated protein in 9L rat brain tumor cells," <i>J. Biol. Chem.</i> 273:749-755 (1998).
	A8	✓	Cox, J.S. et al., "Transcriptional induction of genes encoding endoplasmic reticulum resident proteins requires a transmembrane protein kinase," <i>Cell</i> 73:1197-1206 (1993).
	A9	✓	Dorner, A.J. et al., "Increased synthesis of secreted proteins induces expression of glucose-regulated proteins in butyrate-treated Chinese hamster ovary cells," <i>J. Biol. Chem.</i> 264:20602-20607 (1989).
	A10	✓	Gething et al., "Protein folding in the cell," <i>Nature</i> 355:33-45 (1992).
	A11	✓	Gomer, C.J. et al., "Glucose regulated protein induction and cellular resistance to oxidative stress mediated by porphyrin photosensitization," <i>Cancer Res.</i> 51:6574-6579 (1991).
	A12	✓	Hanks, S.K. et al., "Protein kinase catalytic domain sequence database: identification of conserved features of primary structure and classification of family members," <i>Methods Enzymol.</i> 200:38-62 (1991).
	A13	✓	Hanks, S.K. et al., "Protein kinases 6. The eukaryotic protein kinase superfamily: kinase (catalytic) domain structure and classification," <i>FASEB J.</i> 9:576-596 (1995).

Examiner

R. Hayer

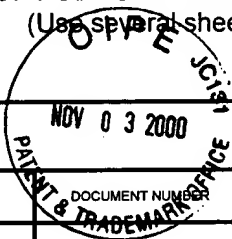
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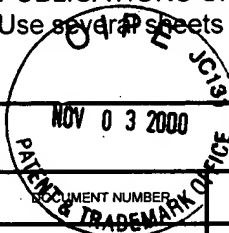
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B1	✓	Hartl, F.U., "Molecular chaperones in cellular protein folding," <i>Nature</i> 381:571-579 (1996)
B2	✓	Hughes, C.S. et al., "Resistance to etoposide induced by three glucose-regulated stresses in Chinese hamster ovary cells," <i>Cancer Res.</i> 49:4452-4454 (1989).
B3	✓	Kaufman, "Selection and coamplification of heterologous genes in mammalian cells," <i>Methods in Enzymology</i> 185:537-566 (1990).
B4	✓	Kaufman et al., "Improved vectors for stable expression of foreign genes in mammalian cells by use of the untranslated leader sequence from EMC virus," <i>Nucleic Acids Res.</i> 19:4485-4490 (1991).
B5	✓	Kaufman, R.J., "Overview of vector design for mammalian gene expression.," <i>Methods Mol. Biol.</i> 62:287-300 (1997).
B6	✓	Kawahara, T. et al., "Endoplasmic reticulum stress-induced mRNA splicing permits synthesis of transcription factor Hac1p/Ern4p that activates the unfolded protein response," <i>Mol. Biol. Cell</i> 8:1845-1862 (1997).
B7	✓	Kawahara, T. et al., "Unconventional splicing of HAC1/ERN4 mRNA required for the unfolded protein response. Sequence-specific and non-sequential cleavage of the splice sites," <i>J. Biol. Chem.</i> 273:1802-1807 (1998).
B8	✓	Kozak, M., "An analysis of 5'-noncoding sequences from 699 vertebrate messenger RNAs," <i>Nucl. Acids Res.</i> 15:8125-8248 (1987).
B9	✓	Kozutsumi, Y. et al., "The presence of malformed proteins in the endoplasmic reticulum signals the induction of glucose-regulated proteins," <i>Nature</i> 332:462-464 (1988).
B10	✓	Lee, A.S., "Coordinated regulation of a set of genes by glucose and calcium ionophores in mammalian cells," <i>TIBS</i> , 12:20-23 (1987).
B11	✓	Li, X.A. et al., "Competitive inhibition of a set of endoplasmic reticulum protein genes (GRP78, GRP94, and ERp72) retards cell growth and lowers viability after ionophore treatment," <i>Mol. Cell. Biol.</i> 11:3446-3453 (1991).
B12	✓	Li, L.J. et al., "Establishment of a Chinese hamster ovary cell line that expresses grp78 antisense transcripts and suppresses A23187 induction of both GRP78 and GRP94," <i>J. Cell Physiol.</i> 153:575-582 (1992).
B13	✓	Mahajan, R. et al., "A small ubiquitin-related polypeptide involved in targeting RanGAP1 to nuclear pore complex protein RanBP2," <i>Cell</i> 88:97-107 (1997).
Examiner <i>PRHayer</i>		Date Considered 4/17/02
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PCN	C1	✓	Maniatis, T., et al., <i>Molecular Cloning: A Laboratory Manual</i> , Cold Spring Harbor Laboratory Press, Cold Spring NY, at pp. 387-389, (1982).
	C2	✓	McDowell, R.S. et al., "Structural studies of potent constraint RGD peptides," <i>J. Amer. Chem. Soc.</i> 114:9245-9253 (1992).
	C3	✓	Mori, K. et al., "A 22 bp cis-acting element is necessary and sufficient for the induction of the yeast KAR2 (BiP) gene by unfolded proteins," <i>EMBO J.</i> 11:2583-2593 (1992).
	C4	✓	Mori, K. et al., "A transmembrane protein with a cdc2+/CDC28-related kinase activity is required for signaling from the ER to the nucleus," <i>Cell</i> 74:743-756 (1993).
	C5	✓	Mori, K. et al., "Signalling from endoplasmic reticulum to nucleus: transcription factor with a basic-leucine zipper motif is required for the unfolded protein-response pathway," <i>Genes to Cells</i> . 1:803-817 (1996).
	C6	✓	Morris, J.A. et al., "Immunoglobulin binding protein (BiP) function is required to protect cells from endoplasmic reticulum stress but is not required for the secretion of selective proteins," <i>J. Biol. Chem.</i> 272:4327-4334 (1997).
	C7	✓	Nielsen, H. et al., "Identification of prokaryotic and eukaryotic signal peptides and prediction of their cleavage sites," <i>Protein Eng.</i> 10:1-6 (1997).
	C8	✓	Nikawa, J. et al., "IRE1 encodes a putative protein kinase containing a membrane-spanning domain and is required for inositol phototrophy in <i>Saccharomyces cerevisiae</i> ," <i>Mol. Microbiol.</i> 6:1441-1446 (1992).
	C9	✓	Paterson et al., "Microinjection of epitope-tagged Rho family cDNAs and analysis by immunolabeling," <i>Meth. Enzymol.</i> 256:162-173 (1995).
	C10	✓	Resendez, E.J. et al., "Identification of highly conserved regulatory domains and protein-binding sites in the promoters of the rat and human genes encoding the stress-inducible 78-kilodalton glucose-regulated protein," <i>Mol. Cell. Biol.</i> 8:4579-4584 (1988).
	C11	✓	Resendez, E. et al., "Calcium ionophore A23187 as a regulator of gene expression in mammalian cells," <i>J. Cell Biol.</i> , 1986 Dec;103(6 Pt 1):2145-52, <i>J. Cell Biol.</i> 103:2145-2152 (1986).
✓	C12	✓	Sambrook J. et al., <i>Molecular Cloning: A Laboratory Manual</i> , Second Edition, Volume 2, Cold Spring Harbor Laboratory Press, Cold Spring, NY at pp. 8.46-8.47 (1989).

Examiner

R. Meyer

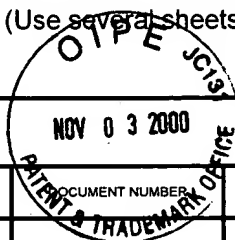
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✓	D1	✓	Saragovi, H.U. et al., "Loops and secondary structure mimetics: development and applications in basic science and rational drug design," <i>BioTechnology</i> 10:773-778 (1992).
	D2	✓	Shamu, C.E. et al., "Oligomerization and phosphorylation of the Ire1p kinase during intracellular signaling from the endoplasmic reticulum to the nucleus," <i>EMBO J.</i> 15:3028-3039 (1996).
	D3	✓	Shen, J. et al., "Coinduction of glucose-regulated proteins and doxorubicin resistance in Chinese hamster cells," <i>Proc. Natl. Acad. Sci. USA</i> 84:3278-3282 (1987).
	D4	✓	Sidrauski, K. et al., "The transmembrane kinase Ire1p is a site-specific endonuclease that initiates mRNA splicing in the unfolded protein response," <i>Cell</i> 90:1031-1039 (1997).
	D5	✓	Simos, G. et al., "Nuclear pore proteins are involved in the biogenesis of functional tRNA," <i>EMBO J.</i> 15:2270-2284 (1996).
	D6	✓	Sugawara, S. et al., "Suppression of stress protein GRP78 induction in tumor B/C10ME eliminates resistance to cell mediated cytotoxicity," <i>Cancer Res.</i> 53:6001-6005 (1993).
	D7	✓	Tirasophon, W. et al., <i>Genes Dev.</i> , 12:1812-1824 in <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, NY, 6.31-6.3.6 (1998).
	D8	✓	Trotta, C.R. et al., "The yeast tRNA splicing endonuclease: a tetrameric enzyme with two active site subunits homologous to the archaeal tRNA endonucleases," <i>Cell</i> 89:849-858 (1997).
	D9	✓	Welihinda, A.A. et al., "The unfolded protein response pathway in <i>Saccharomyces cerevisiae</i> . Oligomerization and trans-phosphorylation of Ire1p (Ern1p) are required for kinase activation," <i>J. Biol. Chem.</i> 271:18181-18187 (1996).
	D10	✓	Welihinda, A.A. et al., "Gene induction in response to unfolded protein in the endoplasmic reticulum is mediated through Ire1p kinase interaction with a transcriptional coactivator complex containing Ada5p," <i>Proc. Natl. Acad. Sci. USA</i> 94:4289-4294 (1997).
✓	D11	✓	Zhou A. et al., "Expression cloning of 2-5A-dependent RNAase: a uniquely regulated mediator of interferon action," <i>Cell</i> 72:753-765 (1993).
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